

CORRECTION

Correction to 'The role of diet in multiple sclerosis onset and course: Results from a nationwide retrospective birth-year cohort'

In the originally published version of the article, Table 3 on page 1275 lacks differentiation between

multivariable 'a' and 'b' under each brain volume, this has been corrected as follows.

Table 3. Multivariable associations between individual dietary components, overall diet quality and MRI volumetric measures.

Variables	NBV	NWMV			NCMV			NDGMV		
		Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a
Consumption at age 50 serves/week	MS, n	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)					
Fruit										
0–5	126	1	1	1	1	1	1	1	1	1
5–7	91	21.6 (-4.9–48.0)	21.1 (-5.45–47.7)	0.3 (-14.8–15.3)	0.7 (-14.3–15.7)	18.8 (1.2–36.4)*	17.8 (0.3–35.3)*	3.0 (1.2–4.8)**	3.0 (1.2–4.8)**	1.5 (-0.1–3.2)
≥7	127	19.5 (-4.7–43.6)	18.0 (-6.8–42.7)	4.4 (-9.36–18.1)	4.9 (-9.1–18.8)	14.0 (-2.0–30.0)	11.8 (-4.4–28.1)	1.4 (-0.2–3.0)	1.4 (-0.2–3.0)	1.0 (-0.1–3.2)
P for linear trend										
Continuous		0.126	0.169	0.518	0.481	0.106	0.179	0.137	0.101	0.101
Vegetable										
0–6	143	1	1	1	1	1	1	1	1	1
6–7	91	29.5 (4.0–55.0)*	31.2 (5.5–57.0)*	14.7 (0.2–29.1)*	13.1 (-1.5–27.6)	13.6 (-3.5–30.7)	17.0 (-0.1–34.0)	1.9 (0.1–3.6)*	1.9 (0.1–3.7)*	1.0 (-0.6–2.7)
≥7	127	12.8 (-10.6–36.2)	12.0 (-11.6–35.5)	-1.0 (-14.3–12.2)	-1.4 (-14.6–11.9)	13.2 (-2.5–28.9)	12.7 (-2.8–28.3)	1.0 (-0.6–2.6)	1.0 (-0.6–2.6)	1.0 (-0.6–2.7)
P for linear trend										
Continuous		0.253	0.278	0.950	0.910	0.092	0.096	0.197	0.185	0.185
Oily fish										
0	97	1	1	1	1	1	1	1	1	1
1–2	162	-2.9 (-27.5–21.6)	-4.0 (-28.6–20.7)	8.1 (-5.8–22.0)	8.5 (-5.3–22.4)	-9.0 (-25.4–7.4)	-10.5 (-26.7–5.7)	-1.4 (-3.1–0.2)	-1.4 (-3.1–0.2)	-1.4 (-3.1–0.2)
≥2	101	-14.1 (-41.7–13.5)	-16.6 (-44.7–11.5)	0.5 (-15.1–16.1)	1.1 (-14.7–16.8)	-12.7 (-31.2–5.7)	-15.8 (-34.2–2.7)	-1.0 (-2.8–0.9)	-1.0 (-2.8–0.9)	-0.9 (-2.8–1.0)
P for linear trend										
Continuous		0.310	0.240	0.973	0.917	0.177	0.094	0.335	0.381	0.381
Red meat										
0	88	1	1	1	1	1	1	1	1	1
1–3	160	-8.2 (-33.5–17.0)	-7.2 (-32.7–18.3)	-1.21 (-15.5–13.1)	-1.1 (-15.5–13.2)	-6.4 (-23.3–10.5)	-5.4 (-22.2–11.4)	0.3 (-1.5–2.0)	0.2 (-1.5–2.0)	0.2 (-1.5–2.0)
≥3	112	-8.7 (-36.6–19.2)	-7.9 (-36.0–20.2)	-0.8 (-16.7–15.0)	-1.9 (-17.7–13.9)	-7.2 (-25.8–11.5)	-5.3 (-23.8–13.3)	0.2 (-1.7–2.1)	0.2 (-1.7–2.1)	0.2 (-1.7–2.1)
P for linear trend										
Continuous		0.557	0.593	0.925	0.811	0.466	0.597	0.854	0.884	0.884
Whole grain bread										
0–5	104	1	1	1	1	1	1	1	1	1
5–7	79	-9.88 (-37.2–17.4)	-9.3 (-36.71–18.2)	-5.3 (-20.7–10.2)	-5.7 (-21.1–9.7)	-4.2 (-22.5–14.1)	-3.1 (-21.2–15.0)	-0.4 (-2.3–1.4)	-0.5 (-2.3–1.4)	-0.5 (-2.3–1.4)
≥7	177	-3.66 (-27.0–19.7)	-5.00 (-28.61–18.7)	-4.5 (-17.7–8.8)	-5.0 (-18.3–8.3)	1.2 (-14.4–16.8)	0.5 (-15.1–16.1)	-0.5 (-2.1–1.1)	-0.5 (-2.1–1.1)	-0.4 (-2.0–1.2)
P for linear trend										
Continuous		0.811	0.715	0.534	0.481	0.825	0.992	0.578	0.630	0.630
Snacks, candy and fast-food										
0–6	93	1	1	1	1	1	1	1	1	1
6–12	106	2.7 (-24.3–29.6)	2.07 (-25.1–29.3)	-1.7 (-17.1–13.6)	-2.8 (-18.2–12.6)	3.4 (-14.5–21.3)	3.9 (-13.9–21.6)	1.0 (-0.8–2.9)	1.1 (-0.8–2.9)	1.1 (-0.8–2.9)
≥12	160	17.6 (-7.5–42.6)	17.59 (-7.7–42.9)	-2.0 (-16.3–12.3)	-3.6 (-17.9–10.7)	17.5 (0.8–34.1)*	19.1 (2.6–35.6)*	1.8 (0.1–3.5)*	1.8 (0.1–3.5)*	1.8 (0.1–3.5)*
P for linear trend										
Continuous		0.134	0.134	0.793	0.633	0.027	0.015	0.044	0.044	0.044

(Continued)

Table 3 Continued.

Variables	NBV			NW/MV			NC/GMV			NDGMV		
	Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a	Multivariable b
Consumption at age 50 serves/week	MS, n	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)
Continuous Overall diet quality score	1.2 (-1.2-3.7)	1.25 (-1.2-3.7)	-0.2 (-1.6-1.1)	-0.4 (-1.8-1.0)	1.3 (-0.3-2.9)	1.5 (-0.1-3.1)	0.2 (0.01-0.3)*	0.2 (0.01-0.3)*	0.2 (0.01-0.3)*	0.2 (0.01-0.3)*	0.2 (0.01-0.3)*	0.2 (0.01-0.3)*
0-4	98	1	1	1	1	1	1	1	1	1	1	1
4-7	120	13.8 (-11.6-39.1)	12.6 (-12.9-38.1)	1.67 (-12.7-16.0)	2.6 (-11.7-17.0)	11.7 (-5.2-28.5)	9.5 (-7.3-26.2)	0.9 (-0.8-2.7)	1.0 (-0.8-2.7)	1.0 (-0.8-2.7)	1.0 (-0.8-2.7)	1.0 (-0.8-2.7)
≥6.5	141	-3.9 (-29.4-21.6)	-6.6 (-32.7-19.5)	-3.7 (-18.1-10.7)	-2.6 (-17.3-12.1)	0.7 (-16.2-17.7)	-3.2 (-20.3-13.9)	-0.5 (-2.3-1.2)	-0.5 (-2.2-1.3)	-0.5 (-2.2-1.3)	-0.5 (-2.2-1.3)	-0.5 (-2.2-1.3)
P for linear trend		0.707	0.569	0.594	0.704	0.991	0.664	0.497	0.567	0.567	0.567	0.567
Continuous	0.6 (-4.2-5.4)	0.07 (-4.9-5.0)	0.18 (-2.5-2.88)	0.4 (-2.4-3.1)	0.6 (-2.6-3.8)	-0.1 (-3.4-3.1)	-0.5 (-0.4-0.3)	-0.5 (-0.4-0.3)	-0.02 (-0.4-0.3)	-0.02 (-0.4-0.3)	-0.02 (-0.4-0.3)	-0.02 (-0.4-0.3)
NThalV			NCBv		MUCCA		LV					
Variables	Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a	Multivariable b	Multivariable a	Multivariable b
Consumption at age 50 serves/week	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)
Fruit	126	1	1	1	1	1	1	1	1	1	1	1
0-5	91	0.7 (0.04-1.4)*	0.7 (0.06-1.4)*	5.3 (0.7-9.9)*	5.1 (0.5-9.7)*	4.7 (0.5-8.8)*	4.7 (0.5-8.9)*	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)
5-7	127	0.4 (-0.2-1.0)	0.4 (-0.2-1.1)	2.9 (-1.2-7.1)	2.6 (-1.7-6.8)	5.4 (1.6-9.3)**	5.5 (1.6-9.4)**	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)
≥7.0		0.230	0.202	0.223	0.287	0.007	0.007	0.613	0.612	0.612	0.612	0.612
P for linear trend					0.5 (-0.2-1.2)	0.6 (-0.2-1.2)	0.8 (0.1-1.4)*	0.8 (0.5-1.4)*	-0.01 (-0.1-0.03)	-0.01 (-0.1-0.03)	-0.01 (-0.1-0.03)	-0.01 (-0.1-0.03)
Continuous	0.1 (-0.02-0.2)	0.1 (-0.01-0.2)	0.5 (-0.02-0.2)	0.5 (-0.02-0.2)	0.5 (-0.2-1.2)	0.6 (-0.2-1.2)						
Vegetable	143	1	1	1	1	1	1	1	1	1	1	1
0-6	91	0.7 (0.03-1.2)*	0.6 (-0.05-1.2)*	0.9 (-3.7-5.4)	1.4 (-3.1-6.0)	1.7 (-2.5-5.8)	1.6 (-2.6-5.8)	-0.3 (-0.5-0.01)*				
6-7	127	0.3 (-0.3-0.9)	0.3 (-0.3-0.9)	0.8 (-3.3-5.0)	0.8 (-3.4-4.9)	0.03 (-3.8-3.8)	-0.1 (-3.9-3.8)	-0.2 (-0.4-0.03)	-0.2 (-0.4-0.03)	-0.2 (-0.4-0.03)	-0.2 (-0.4-0.03)	-0.2 (-0.4-0.03)
≥7		0.243	0.258	0.686	0.697	0.960	0.996	0.072	0.073	0.073	0.073	0.073
P for linear trend					0.2 (-0.1-0.4)	0.8 (-0.7-2.4)	0.8 (-0.7-2.3)	0.2 (-1.3-1.6)	0.1 (-1.3-1.6)	-0.1 (-0.2-0.00)*	-0.1 (-0.2-0.00)*	-0.1 (-0.2-0.00)*
Continuous	0.2 (-0.1-0.4)	0.2 (-0.1-0.4)	0.2 (-0.1-0.4)	0.2 (-0.1-0.4)	0.8 (-0.7-2.4)	0.8 (-0.7-2.3)	0.8 (-0.7-2.3)	0.2 (-1.3-1.6)	0.1 (-1.3-1.6)			
Oily fish	97	1	1	1	1	1	1	1	1	1	1	1
0	162	-0.3 (-0.9-0.3)	-0.3 (-0.6-0.7)	-1.8 (-6.1-2.5)	-2.0 (-6.3-2.3)	-1.4 (-5.3-2.6)	-1.4 (-5.4-2.5)	-0.002 (-0.2-0.2)	-0.002 (-0.2-0.2)	-0.002 (-0.2-0.2)	-0.002 (-0.2-0.2)	-0.002 (-0.2-0.2)
1-2	101	-0.3 (-1.0-0.5)	-0.2 (-1.0-0.4)	-0.4 (-5.2-4.0)	-0.8 (-5.7-4.1)	-2.6 (-7.1-1.8)	-2.8 (-7.2-1.7)	0.1 (-0.2-0.4)	0.1 (-0.2-0.4)	0.1 (-0.2-0.4)	0.1 (-0.2-0.4)	0.1 (-0.2-0.4)
≥2		0.479	0.381	0.893	0.759	0.243	0.218	0.409	0.409	0.409	0.409	0.409
P for linear trend					-0.1 (-0.3-0.2)	-0.2 (-2.0-1.6)	-0.4 (-2.0-1.4)	-1.4 (-3.0-0.3)	-1.5 (-3.2-0.18)	0.04 (-0.1-0.1)	0.04 (-0.1-0.1)	0.04 (-0.1-0.1)
Continuous	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)	-0.1 (-0.3-0.2)	-0.2 (-2.0-1.6)	-0.4 (-2.0-1.4)	-1.4 (-3.0-0.3)	-1.5 (-3.2-0.18)	0.04 (-0.1-0.1)			
Red meat	88	1	1	1	1	1	1	1	1	1	1	1
0	160	0.00 (-0.7-0.7)	0.00 (-0.7-0.7)	2.4 (-2.1-6.8)	2.5 (-1.9-6.9)	5.0 (1.0-9.0)*	5.1 (1.1-9.2)*	0.1 (-0.1-0.4)	0.1 (-0.1-0.4)	0.1 (-0.1-0.4)	0.1 (-0.1-0.4)	0.1 (-0.1-0.4)
1-3	112	-0.3 (-1.0-0.5)	-0.3 (-1.0-0.5)	0.9 (-4.0-5.7)	1.2 (-3.7-6.1)	3.7 (-0.7-8.2)	3.7 (-0.7-8.2)	0.3 (0.04-0.6)*				
≥3												

(Continued)

Table 3 Continued.

Variables	NThalV			NCbv			MUCCA			LV		
	Multivariable a		Multivariable b	Multivariable a		Multivariable b	Multivariable a		Multivariable b	Multivariable a		Multivariable b
	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)	Unst. B (95% CI)			
P for linear trend	0.466	0.383	0.794	0.383	0.134	0.138	0.022	0.022	0.023			
Continuous	-0.10 (-0.3-0.1)	-0.10 (-0.3-0.1)	-0.2 (-1.4-0.9)	-0.2 (-1.3-0.9)	0.7 (-0.3-1.8)	0.7 (-0.3-1.8)	0.1 (0.003-0.1)*	0.1 (0.003-0.1)*	0.1 (0.003-0.1)*			
Whole grain bread	104	1	1	1	1	1	1	1	1	1	1	1
0-5	79	-0.2 (-0.9-0.5)	-0.2 (-0.9-0.5)	-0.04 (-4.8-4.7)	-0.1 (-4.6-4.9)	-2.7 (-7.0-1.7)	-2.7 (-7.1-1.7)	0.1 (-0.2-0.4)	0.1 (-0.2-0.4)			
5-7	177	-0.1 (-0.7-0.5)	-0.1 (-0.7-0.5)	0.02 (-4.1-4.1)	0.1 (-4.2-4.0)	0.5 (-3.2-4.3)	0.5 (-3.3-4.2)	-0.03 (-0.3-0.2)	-0.03 (-0.3-0.2)			
≥ 7				0.990	0.963	0.656	0.716	0.720	0.723			
P for linear trend	0.806	0.753	0.990	0.1 (-2.0-2.0)	0.1 (-2.1-2.0)	0.4 (-1.4-2.3)	0.4 (-1.5-2.2)	-0.02 (-0.1-0.09)	-0.02 (-0.1-0.09)			
Continuous	-0.04 (-0.3-0.3)	-0.05 (-0.4-0.3)	0.1 (-2.0-2.0)	0.1 (-2.1-2.0)	0.1 (-2.1-2.0)	0.4 (-1.4-2.3)	0.4 (-1.5-2.2)	-0.02 (-0.1-0.09)	-0.02 (-0.1-0.09)			
Snacks, candy and fast-food	93	1	1	1	1	1	1	1	1	1	1	1
0-6	106	0.5 (-0.2-1.2)	0.5 (-0.2-1.2)	3.9 (-0.8-8.6)	4.1 (-0.6-8.7)	3.2 (-1.1-7.6)	3.1 (-1.3-7.5)	-0.02 (-0.3-0.2)	-0.02 (-0.3-0.2)			
6-12	160	0.6 (-0.1-1.2)	0.5 (-0.1-1.2)	6.2 (1.9-10.5)**	6.2 (2.2-10.9)**	2.9 (-1.1-6.9)	2.8 (-1.27-6.9)	0.01 (-0.2-0.3)	0.01 (-0.2-0.3)			
≥ 12				0.006	0.003	0.206	0.231	0.886	0.883			
P for linear trend	0.112	0.161	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.7 (0.3-1.1)*	0.7 (0.3-1.2)***	0.2 (-0.2-0.6)	0.2 (-0.2-0.6)	-0.001 (-0.2-0.2)	-0.001 (-0.2-0.2)		
Continuous	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)	0.1 (-0.01-0.1)
Overall diet quality score	98	1	1	1	1	1	1	1	1	1	1	1
0-4	120	0.3 (-0.4-0.9)	0.3 (-0.4-1.0)	3.0 (-1.4-7.4)	2.5 (-1.9-6.9)	-1.2 (-5.2-2.9)	-1.2 (-5.3-2.9)	-0.3 (-0.5-0.02)*	-0.3 (-0.5-0.02)*			
4-7	141	-0.1 (-0.7-0.6)	-0.1 (-0.7-0.6)	-1.7 (6.1-2.7)	-2.5 (7.0-1.9)	-0.2 (-4.3-3.9)	-0.3 (-4.5-3.9)	-0.2 (0.4-0.06)	-0.2 (0.4-0.06)			
≥ 6.5				0.866	0.390	0.232	0.940	0.903	0.903			
P for linear trend	0.791	0.02 (-0.1-0.1)	0.02 (-0.1-0.2)	-0.2 (-1.1-0.6)	-0.4 (-1.2-0.5)	-0.1 (-0.8-0.7)	-0.1 (-0.9-0.7)	0.162	0.162			
Continuous	0.02 (-0.1-0.1)	0.02 (-0.1-0.2)	0.02 (-0.1-0.2)	0.02 (-0.1-0.2)	0.02 (-0.1-0.2)	0.02 (-0.1-0.2)	0.02 (-0.1-0.2)	-0.04 (-0.1-0.02)	-0.04 (-0.1-0.02)			

Note: Bold values denote statistical significance at the $p < 0.05$ level, * p -value < 0.05 , ** p -value < 0.01 , *** p -value < 0.001 .

Multivariable a: including the following covariates: sex, sun exposure at age 50, smoking status, disease duration since onset, disease modifying therapy duration, onset type, education.

Multivariable b: including the following covariates: sex, sun exposure at age 50, smoking status, disease duration since onset, disease modifying therapy duration, onset type, education, body mass index (BMI) and physical activity at age 50.

We apologize for this error.

Loonstra FC, de Ruiter LRJ, Schoonheim MM, et al. The role of diet in multiple sclerosis onset and course: results from a nationwide retrospective birth-year cohort. Ann Clin Transl Neurol. 2023;10:1268-1283. <https://doi.org/10.1002/acn3.51788>